

APPENDIX

Speciated Compounds

This appendix lists chemical species measured from the dichotomous, NMOC, and toxics monitoring programs. You can use this appendix to determine the corresponding AIRS parameter code. For information on which sites monitor for dichotomous, NMOC, or toxics data, see Table 1, "Air Quality Monitoring Data Availability".

Compound Name	AIRS Parameter Code
*DICHOTOMOUS	
C-Aluminum	83101
C-Antimony	83102
C-Arsenic	83103
C-Barium	83107
C-Bromine	83109
C-Calcium	83111
C-Chlorine	83115
C-Chromium	83112
C-Cobalt	83113
C-Copper	83114
C-Iron	83126
C-Lead	83128
C-Manganese	83132
C-Mercury	83142
C-Molybdenum	83134
C-Nickel	83136
C-Phosphorus	83152
C-Potassium	83180
C-Rubidium	83176
C-Selenium	83154
C-Silicon	83165
C-Strontium	83168
C-Sulfur	83169
C-Tin	83160
C-Titanium	83161
C-Uranium	83179
C-Vanadium	83164
C-Yttrium	83183
C-Zinc	83167
C-Zirconium	83185
F-Aluminum	84101

* The dichotomous sampler collects both fine fraction (less or equal to PM2.5) and coarse fraction (between PM2.5 and PM10) samples. Compounds measured from the fine fraction are identified with "F-", and compounds measured from the coarse fraction are identified with "C-". A "T-" represents the total measurement (fine plus coarse fractions) of a compound.

Compound Name	AIRS Parameter Code
F-Antimony	84102
F-Arsenic	84103
F-Barium	84107
F-Bromine	84109
F-Calcium	84111
F-Chlorine	84115
F-Chromium	84112
F-Cobalt	84113
F-Copper	84114
F-Iron	84126
F-Lead	84128
F-Manganese	84132
F-Mercury	84142
F-Molybdenum	84134
F-Nickel	84136
F-Phosphorus	84152
F-Potassium	84180
F-Rubidium	84176
F-Selenium	84154
F-Silicon	84165
F-Strontium	84168
F-Sulfur	84169
F-Tin	84160
F-Titanium	84161
F-Uranium	84179
F-Vanadium	84164
F-Yttrium	84183
F-Zinc	84167
F-Zirconium	84185
T-Aluminum	82101
T-Antimony	82102
T-Arsenic	82103
T-Barium	82107
T-Bromine	82109
T-Calcium	82111
T-Chlorine	82115
T-Chromium	82112
T-Cobalt	82113
T-Copper	82114
T-Iron	82126
T-Lead	82128

* The dichotomous sampler collects both fine fraction (less or equal to PM2.5) and coarse fraction (between PM2.5 and PM10) samples. Compounds measured from the fine fraction are identified with "F-", and compounds measured from the coarse fraction are identified with "C-". A "T-" represents the total measurement (fine plus coarse fractions) of a compound.

Compound Name	AIRS Parameter Code
T-Manganese	82132
T-Mercury	82142
T-Molybdenum	82134
T-Nickel	82136
T-Phosphorus	<u>82152</u>
T-Potassium	82180
T-Rubidium	82176
T-Selenium	82154
T-Silicon	82165
T-Strontium	<u>82168</u>
T-Sulfur	82169
T-Tin	82160
T-Titanium	82161
T-Uranium	82179
T-Vanadium	<u>82164</u>
T-Yttrium	82183
T-Zinc	82167
T-Zirconium	82185
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There are also six totals:	
Mass PM Coarse (2.5-10 µm) - Local Conditions	86101
Mass PM Fine (0 - 2.5 µm) - Local Conditions	88101
Mass PM10 (0-10 µm) - Local Conditions	85101
Mass PM Coarse (2.5-10 µm) - Standard Conditions	81103
Mass PM Fine (0 - 2.5 µm) - Standard Conditions	<u>81104</u>
Mass PM10 (0-10 µm) - Standard Conditions	81102

* The dichotomous sampler collects both fine fraction (less or equal to PM2.5) and coarse fraction (between PM2.5 and PM10) samples. Compounds measured from the fine fraction are identified with "F-", and compounds measured from the coarse fraction are identified with "C-". A "T-" represents the total measurement (fine plus coarse fractions) of a compound.

Compound Name	AIRS Parameter Code
NMOC	
1,2,3-Trimethbenzene	45225
1,2,4-Trimethbenzene	45208
1,3,5-Trimethbenzene	45207
1,3-Butadiene	43218
1-Butene	<u>43280</u>
1-Pentene	43224
2,2,3-Trimethylbutane	43392
2,2,4-Trimethylpentane	43250
2,2-Dimethylbutane	43244
2,3,4-Trimethylpentane	<u>43252</u>
2,3-Dimethylbutane	43284
2,3-Dimethylpentane	43291
2,4-Dimethylpentane	43247
2,5-Dimethylhexane	43955
2-Methyl-1-Pentene	<u>43246</u>
2-Methyl-2-Butene	43228
2-Methylbutane	43221
2-Methylheptane	43960
2-Methylhexane	43263
2-Methylpentane	<u>43285</u>
3-Ethylhexane	43295
3-Methylbutene	43282
3-Methylheptane	43253
3-Methylhexane	43249
3-Methylpentane	<u>43230</u>
4-Mpentene/3-Mpentene	43391
Benzene	45201
Butane	43212
c-1,3-Dimethylpentane	43393
c-2-Butene	<u>43217</u>
c-2-Hexene	43290
c-2-Pentene	43227
Cyclohexane	43248
Cyclopentane	43242
Cyclopentene	<u>43283</u>
Decane	43238
Ethane	43202
Ethene	43203
Ethylbenzene	45203
Ethyne	<u>43206</u>

Compound Name	AIRS Parameter Code
Heptane	43232
Hexane	43231
Iso-Propylbenzene	45210
Isobutane	43214
Isobutene	43270
Isoprene	43243
m-Diethylbenzene	45218
m-Ethyltoluene	45212
m/p-Xylene	45109
Methylcyclohexane	43261
Methylcyclopentane	43262
n-Propylbenzene	45209
n-Undecane	43954
Nonane	43235
o-Ethyltoluene	45211
o-Xylene	45204
Octane	43233
p-Diethylbenzene	45219
p-Ethyltoluene	45213
Pentane	43220
Propane	43204
Propene	43205
Styrene	45220
t-1,3-Dimethycyclopentane	43394
t-2-Butene	43216
t-2-Hexene	43289
t-2-Pentene	43226
Toluene	45202
There are also two totals:	
Total nonmethane organic compounds	43102
Sum of the PAMs target compounds	43000

Compound Name	AIRS Parameter Code
TOXICS	
1,3-Butadiene	43218
Acetaldehyde	43503
Aluminum	12101
Antimony	12102
Arsenic	12103
Arsenic	12103
Barium	12107
Benzene	45201
Benzo(a)pyrene	82242
Benzo(b)fluoranthene	82220
Benzo(g,h,i)perylene	82237
Benzo(k)fluoranthene	82223
Bromine	12109
Calcium	12111
Carbon Tetrachloride	43804
Chlorine	13115
Chloroform	43803
Chromium	12112
Cobalt	12113
Copper	12114
Dibenz(a,h)anthracene	82151
Ethyl Benzene	45203
Formaldehyde	43502
Hexavalent Chromium	12115
Indeno(1,2,3-cd)pyrene	82243
Iron	12126
Lead	12128
Manganese	12132
Mercury	12142
meta/para-Xylene	45109
Methyl Chloroform	43814
Methyl Ethyl Ketone	43552
Methyl tertiary-Butyl Ether	43372
Methylene Chloride	43802
Molybdenum	12134
Nickel	12136
ortho-Dichlorobenzene	45805
ortho-Xylene	45204
para-Dichlorobenzene	45807
Perchloroethylene	43817

Compound Name	AIRS Parameter Code
Phosphorus	12152
Potassium	12180
Rubidium	12176
Selenium	12154
<u>Silicon</u>	<u>12165</u>
Strontium	12168
Styrene	45220
Sulfur	12169
Tin	12160
<u>Titanium</u>	<u>12161</u>
Toluene	45202
Trichloroethylene	43824
Uranium	12179
Vanadium	12164
<u>Yttrium</u>	<u>12183</u>
Zinc	12167
Zirconium	12185
